

DIELECTRIC BARRIER DISCHARGE LAMP

ABSTRACT OF THE DISCLOSURE

5 A dielectric barrier discharge lamp is disclosed, which has a discharge vessel enclosing
with a wall a discharge volume filled with discharge gas. There is a phosphor layer within
the discharge volume. The discharge lamp comprises first and second sets of
interconnected electrodes, which are isolated from the discharge volume by at least one
dielectric layer. At least one of the dielectric layers is the wall of the discharge vessel. Both
10 the first and second sets of electrodes are located external to the discharge vessel.
Advantageously, the discharge vessel comprises an outer tubular portion with an internal
surface and an inner tubular portion with an outward surface. The outer tubular portion
surrounds the inner tubular portion, and the discharge volume is enclosed between the
internal surface of the outer tubular portion and the outward surface of the inner tubular
15 portion.